IN THE CLAIMS:

The status of each claim that has been introduced in the above-referenced application is identified in the ensuing listing of the claims. This listing of the claims replaces all previously submitted claims listings.

- (Original) A method for insulating at least one aperture formed through a substrate, comprising:
 introducing a quantity of unconsolidated dielectric material into the at least one aperture; and selectively consolidating unconsolidated dielectric material located adjacent to a periphery of the at least one aperture to form an insulative coating on surfaces of the at least one aperture.
- 2. (Previously Presented) The method of claim 1, wherein introducing comprises introducing a quantity of unconsolidated UV-curable dielectric material into the at least one aperture.
- 3. (Previously Presented) The method of claim 2, wherein selectively consolidating comprises exposing portions of the unconsolidated UV-curable dielectric material to UV radiation in the form of a laser beam.
- 4. (Previously Presented) The method of claim 1, wherein introducing comprises dispensing the quantity of unconsolidated dielectric material into the at least one aperture.
- 5. (Previously Presented) The method of claim 1, wherein introducing comprises lowering a level of the substrate relative to a level of a volume of the unconsolidated dielectric material.
- 6. (Previously Presented) The method of claim 1, wherein selectively consolidating comprises directing an energy beam onto selected regions of the quantity of unconsolidated dielectric material.

- 7. (Previously Presented) The method of claim 1, further comprising: repeating introducing and selectively consolidating at least once to form another layer of the insulative coating.
- 8. (Original) The method of claim 1, further comprising: removing unconsolidated dielectric material remaining within the at least one aperture.
- 9. (Previously Presented) The method of claim 8, wherein, upon removing, a via hole that extends through the insulative coating is exposed.
- 10. (Previously Presented) A method for forming electrically conductive vias through a substrate, comprising:

 forming at least one precursor hole through the substrate;

 introducing unconsolidated dielectric material into the at least one precursor hole; and selectively consolidating portions of the unconsolidated dielectric material at locations adjacent to a periphery of the at least one precursor hole to form a layer of an insulative coating on surfaces of the at least one precursor hole.
- 11. (Previously Presented) The method of claim 10, wherein forming comprises forming the at least one precursor hole to have one of a substantially cylindrical shape, a substantially frustoconical shape, an hourglass shape, and a bulging center.
- 12. (Previously Presented) The method of claim 10, wherein forming includes drilling through the substrate.
- 13. (Previously Presented) The method of claim 12, wherein forming further includes trepanning the substrate.

- 14. (Previously Presented) The method of claim 10, wherein introducing comprises introducing an unconsolidated UV-curable dielectric material into the at least one precursor hole.
- 15. (Previously Presented) The method of claim 14, wherein selectively consolidating comprises exposing portions of the UV-curable dielectric material to UV radiation in the form of a laser beam.
- 16. (Previously Presented) The method of claim 10, wherein introducing comprises dispensing the unconsolidated dielectric material into the at least one precursor hole.
- 17. (Previously Presented) The method of claim 10, wherein introducing comprises lowering a level of the substrate relative to a level of a volume of unconsolidated dielectric material.
- 18. (Previously Presented) The method of claim 10, wherein selectively consolidating comprises directing an energy beam onto the portions of the unconsolidated dielectric material.
- 19. (Previously Presented) The method of claim 10, further comprising: repeating introducing and selectively consolidating at least once to form another layer of the insulative coating.
- 20. (Previously Presented) The method of claim 10, further comprising: removing unconsolidated dielectric material remaining within the at least one precursor hole.
- 21. (Previously Presented) The method of claim 20, wherein, upon removing, a via hole that extends through the insulative coating is exposed.
- 22. (Previously Presented) The method of claim 21, further comprising: introducing conductive material into the via hole.

- 23. (Previously Presented) The method of claim 22, wherein introducing conductive material comprises introducing at least one of polysilicon, a metal, a metal alloy, a conductive elastomer, and a conductor-filled elastomer into the via hole.
- 24. (Previously Presented) The method of claim 22 wherein introducing conductive material comprises at least one of physical vapor depositing, chemical vapor depositing, electrolytic plating, electroless plating, and immersion plating.
- 25. (Previously Presented) The method of claim 22, wherein introducing conductive material comprises dispensing the conductive material.

26-47 (Canceled)